



Regional Wireless Cooperative
 Board of Directors
 Agenda
 January 23, 2014

	ITEM	PRESENTER
1)	Call to Order, Roll Call, Opening Comments	Vice Chair Hartig Scottsdale
2)	Approval of RWC Board Meeting Minutes from November 21, 2013 This item is for information, discussion and action.	Vice Chair Hartig Scottsdale Est. 2 min
3)	Update on the 700 MHz Narrow-Banding, TDMA Conversion Lifecycle Update – Hardware Upgrade Phase The purpose of this item is to update the Board of Directors on the 700 MHz Narrow-Banding Hardware Upgrade. This item is for information and discussion.	Mr. Bill Phillips Phoenix ITS & Mr. David Felix - RWC Executive Director Est. 10 min
4)	7.11 System Enhancement Release (SER) The purpose of this item is to update the Board of Directors on the schedule for the 7.11 SER. This item is for information and discussion.	Mr. Bill Phillips Phoenix ITS & Mr. David Felix - RWC Executive Director Est. 5 min
5)	800 MHz Re-Banding The purpose of this item is to update the Board of Directors on the 800 MHz Re-Banding project. This item is for information and discussion.	Mr. Bill Phillips Phoenix ITS & Mr. David Felix - RWC Executive Director Est. 5 min



Regional Wireless Cooperative
 Board of Directors
 Agenda
 January 23, 2014

6)	<p>Other Project Updates:</p> <ul style="list-style-type: none"> A. Avondale Console Replacement B. Goodyear Police Department Transition C. Maricopa County Community College District Project 	<p>Mr. Bill Phillips Phoenix ITS & Mr. David Felix - RWC Executive Director</p> <p>Est. 5 min</p>
7)	<p>Governance Working Group Update This purpose of this item is to update the Board of Directors on the continued efforts of the Governance Working Group. This item is for information and discussion.</p>	<p>Vice Chair Hartig Scottsdale & Mr. David Felix – RWC Executive Director</p> <p>Est. 10 min.</p>
8)	<p>Executive Director Update</p> <ul style="list-style-type: none"> A. Schaumburg Visit/VPM B. Las Vegas Metro Police Department Visit C. University of Phoenix BDA Replacement D. ASU Membership <p>This item is for information and discussion.</p>	<p>Mr. David Felix – RWC Executive Director</p> <p>Est. 10 min.</p>
9)	<p>Call to the Public This item is for information only.</p>	<p>Vice Chair Hartig Scottsdale</p>
10)	<p>Announcements & Future Agenda Items The purpose of this item is to communicate any Board announcements or future agenda items. The date of the next Board Meeting: March 27, 2014 from 10:00 – 12:00. This item is for information only.</p>	<p>Vice Chair Hartig Scottsdale</p>
11)	<p>Adjourn</p>	<p>Vice Chair Hartig Scottsdale</p>



Regional Wireless Cooperative

Board of Directors

Agenda

January 23, 2014

**Board of Directors
2014 Meeting Schedule**

<u>Date</u>	<u>Location</u>
Thursday, January 23 10:00-12:00	Maricopa Association of Governments (MAG) 302 North 1st Avenue, 2nd Floor Phoenix, AZ 85003
Thursday, March 27 10:00-12:00	Maricopa Association of Governments (MAG) 302 North 1st Avenue, 2nd Floor Phoenix, AZ 85003
Thursday, May 22 9:00-11:00 *Joint Mtg*	Maricopa Association of Governments (MAG) 302 North 1st Avenue, 2nd Floor Phoenix, AZ 85003
Thursday, July 24 10:00-12:00	Maricopa Association of Governments (MAG) 302 North 1st Avenue, 2nd Floor Phoenix, AZ 85003
Thursday, September 25 10:00-12:00	Maricopa Association of Governments (MAG) 302 North 1st Avenue, 2nd Floor Phoenix, AZ 85003
Thursday, November 20 9:00-11:00 *Joint Mtg*	Maricopa Association of Governments (MAG) 302 North 1st Avenue, 2nd Floor Phoenix, AZ 85003



BOARD OF DIRECTORS REPORT

TO:	Regional Wireless Cooperative (RWC) Board Members	Agenda Date:	January 23, 2014
FROM:	Bill Phillips, Phoenix ITS		Item 3
SUBJECT:	700MHz NARROW-BANDING TDMA CONVERSION LIFECYCLE UPGRADE, HARDWARE UPGRADE PHASE		

PURPOSE

The purpose of this report is to inform the RWC Board of the status of the 700 MHz Narrow-Banding, TDMA Conversion and Lifecycle Upgrade - Hardware Phase project.

BACKGROUND

This project is necessary to meet the federal mandate to narrow-band all 700 MHz frequencies by January 1, 2017, and perform key lifecycle upgrades to replace components that are no longer supported. The project was approved by the RWC Board on March 28, 2013 at a cost of \$25.4 M.

DISCUSSION

The key points on the project status are as follows:

- Project costs are shown in Attachment A, and have not changed since project approval
- Distribution of costs to the Members (not shown), also remains unchanged
- Project schedule (see high level schedule in Attachment B) appears to be aligning well with 800 MHz Re-Banding
- Project start has slipped slightly, but completion will still be achieved by December 31, 2016

During the upgrade of Simulcast C, there is a risk of reduced coverage for the City of Maricopa. In order to mitigate the reduced coverage, the antennas on the South Mountain Overlay site will be converted to directional panel antennas to increase and focus the transmit signal in the Maricopa area. Motorola and staff have also developed a further mitigation strategy to complete the upgrade at the Simulcast C South Mtn and Chandler Fire Training Academy sites first, and partially re-enable Simulcast C to provide additional coverage if necessary.

In summary, the project is progressing well.

RECOMMENDATION

This agenda item is for information, discussion and possible follow-up action.

Attachment A

Summary of 700 MHz Narrow-Banding, TDMA, and Lifecycle Update Costs	
Hardware Upgrade Phase	
Phase I: Simulcast C	\$3,888,500
Phase II: Simulcast A&B	\$15,848,100
Phase III: ISR's	\$1,042,500
New Phase IV Capacity Increase	\$6,885,900
RWC Staff, PM, Contingency, RWC Consoles	\$2,000,000
Total Costs to Accomplish 700 MHz Conversion and Lifecycle Upgrade Without Narrow-Banding	\$29,665,000
Credit for 800 MHz Re-Banding Cash-out	(\$4,300,000)
Total Cost of Hardware Upgrade with Re-Banding Credit	\$25,365,000

Attachment B

**700 MHz Narrow-Banding, TDMA Conversion, Lifecycle Upgrade - Hardware Phase
High Level Project Schedule**

% Complete	Task Name	Duration	Start	Finish
12%	Overall Project Schedule and Status	947 days	Wed 5/1/13	Wed 12/28/16
100%	Contract Design Review	1 day	Wed 9/4/13	Wed 9/4/13
0%	SER 2 Upgrade (Not part of this SOW but a dependency)	10 days	Mon 1/13/14	Mon 1/27/14
0%	SIM F add 2 Channels	15 days	Tue 1/28/14	Mon 2/17/14
0%	Change antennas on South Mountain Overlay Site for improved	5 days	Tue 1/28/14	Mon 2/3/14
0%	Upgrade Simulcast C (Site Off-line)	255 days	Tue 2/18/14	Mon 11/3/14
0%	Upgrade Sky Harbor (Site Off-line)	54 days	Tue 8/19/14	Mon 10/13/14
0%	Upgrade Outlet Center (Site Off-line)	78 days	Tue 8/19/14	Fri 11/7/14
0%	Upgrade Simulcast B (Site Off-line)	305 days	Thu 1/15/15	Fri 11/20/15
0%	Upgrade Simulcast A (Site Off-line)	249 days	Mon 1/11/16	Tue 9/20/16
0%	Complete Punch List, Documentation	96 days	Wed 9/21/16	Tue 12/27/16
0%	Project Complete	1 day	Wed 12/28/16	Wed 12/28/16



BOARD OF DIRECTORS REPORT

TO:	Regional Wireless Cooperative (RWC) Board Members	Agenda Date:	January 23, 2014
FROM:	Bill Phillips, Phoenix ITS		Item 4
SUBJECT:	7.11 AND VOICE PROCESSING MODULE (VPM) ISSUES, AND 7.11 SYSTEM ENHANCEMENT RELEASE (SER)		

PURPOSE

The purpose of this report is to inform the RWC Board of the status of the 7.11 and Voice Processing Module (VPM) Issues, and the 7.11 System Enhancement Release.

BACKGROUND

The RWC Board was advised of the 7.11 and VPM issues at the November 21, 2013 Board Meeting. Board Chairperson, Police Chief Steve Campbell headed up a group to address these issues with Motorola. The main focus was on the VPM and its performance which affects the life safety of officers and firefighters. The VPM was exhibiting application freezes, random reboots, and missing audio. The 7.11 issues included missing applications and configuration files, poor documentation, poor support, security assignments, lack of procedures for the local team and poor training.

DISCUSSION

Motorola formed a highly visible, "black-belt" team to address the VPM issues, which represent the most critical issues facing the RWC. This team was able to resolve the missing audio issues, and has indicated possible causes of the random reboots and application freezes. New software and hardware is now in testing on two consoles in Tempe Police Dispatch, but the test period is still too short to provide solid assurance the problems have been addressed, although no problems have been reported to date. An update meeting is scheduled for Friday, January 17th, with the results to be reported verbally to the Board.

As for the 7.11 issues, Motorola met with RWC representatives and noted actions to correct the issues noted above. The missing applications and configuration files, and the security assignments have been corrected. Motorola indicates they are working on the other issues, which can only be tested at our next system upgrade. There is probably little that can be done with respect to improving documentation, but staff will not stop pressing for same. One positive action is Motorola's pledge to leave one Upgrade Operations staff member on-site for several days after the upgrade to assist and facilitate clean-up efforts and to resolve any problems that may occur after the upgrade team has returned to Motorola. This should improve support, and assist and direct the local team during their after upgrade clean-up.

Finally, the 7.11 System Enhancement Release (SER) is being implemented at this time. Implementation began on Monday January 13th, and will be completed by Monday, January 27th. RWC Network Operations has been working with RWC Members and Motorola on the Implementation Time Line and will keep Members informed of progress and scheduled downtimes. This release should close several key cases, such as site controller contention (where the primary and backup controllers both vie for control of the system), no communications to the routers (although the routers appear to keep working properly, the system cannot communicate with them to show their status).

RECOMMENDATION

This agenda item is for information, discussion and possible follow-up action.



BOARD OF DIRECTORS REPORT

TO:	Regional Wireless Cooperative (RWC) Board Members	Agenda Date:	January 23, 2014
FROM:	Bill Phillips, Phoenix ITS		Item 5
SUBJECT:	800 MHZ REBANDING UPDATE		

PURPOSE

The purpose of this report is to inform the RWC Board of the status and negotiations schedule for the RWC's 800 MHz Rebanding "cash-out" project.

BACKGROUND

This project is to provide compliance with the FCC mandate to relocate the 800 MHz spectrum. The spectrum is being relocated to eliminate interference with the cellular carriers. The project is primarily funded by Sprint/Nextel. Rather than go through the actual re-banding process, the RWC intends to move off of the 800 MHz frequencies, and onto the 700 MHz band making the entire RWC system all 700 MHz. The RWC will negotiate with Sprint/Nextel to use the "cash-out" option, and the funding obtained from this effort will be used to offset the cost of the 700 MHz Narrow-Banding.

DISCUSSION

For over three years, the RWC and Phoenix ITS staff have developed a cost proposal to reband RWC 800 MHz frequencies. This proposal will be used as the basis for negotiations with Spring/Nextel for the cash-out option. Final costs have been developed in cooperation with affected RWC members and Motorola.

Mr. Phillips will discuss recent activities, key meetings and timeline for actions. Successful negotiations with Sprint/Nextel could have a significant effect on reducing the costs of the 700 MHz Narrow-Banding project.

RECOMMENDATION

This agenda item is for information, discussion and possible follow-up action.



BOARD OF DIRECTORS REPORT

TO:	Regional Wireless Cooperative (RWC) Board Members	Agenda Date:	January 23, 2014
FROM:	Bill Phillips, Phoenix ITS & David Felix, RWC		Item 6
SUBJECT:	OTHER PROJECT UPDATES		

PURPOSE

The purpose of this report is to update the RWC Board of Directors on various projects being managed by the RWC, Phoenix ITS, and affected Members.

BACKGROUND

Previous Board meetings have necessitated addressing regular business activities of the RWC with minimal time to brief the Board on other projects. The following projects have required Phoenix ITS and RWC staff resources and coordination and will be discussed to provide the Board with project scope, timelines and impacts on network operations.

DISCUSSION

- City of Avondale Console Replacement Project
- City of Goodyear Police Department Transition
- Maricopa County Community College District Project

RECOMMENDATION

This agenda item is for information, discussion and possible follow-up action.



BOARD OF DIRECTORS REPORT

TO:	Regional Wireless Cooperative (RWC) Board Members	Agenda Date:	January 23, 2014
FROM:	David Felix, RWC Executive Director Brad Hartig, Scottsdale CIO and RWC Vice-chairman		Item 7
SUBJECT:	RWC/TRWC GOVERNANCE WORKING GROUP UPDATE		

BACKGROUND

On October 4, 2012 during the second meeting of the Joint RWC/TRWC Strategic Planning session, the participants formed a Joint RWC/TRWC Governance Working Group (GWG) comprised of members representing the two regional communications systems. The vision of the GWG is: *“To assure seamless radio and data communications to meet the operational needs of the users in a cost effective and sustainable manner.”*

THE ISSUE

The GWG has met approximately every two weeks since its formation. It established a vision, mission and guiding principles to focus its efforts on meeting the stated vision. The GWG has engaged in a detailed evaluation of the various governance options in use by a number of systems across the country. The GWG utilized a “decision-making matrix” to structure the evaluation process and build consensus.

RWC Executive Director David Felix and RWC Vice-chairman Brad Hartig will brief the Board of Directors on the activities of the GWG; progress and results of the GWG meeting held on Thursday, January 16th. They will also brief the Board on a meeting held on Wednesday, January 22nd with members of the RWC/TRWC Joint Operations Working Group (JOWG) to seek input on the organizational structure of the Regional Communications Authority (RCA) draft governance documents.

RECOMMENDATION

This agenda item is for information, discussion and possible follow-up action.



BOARD OF DIRECTORS REPORT

TO:	Regional Wireless Cooperative (RWC) Board Members	Agenda Date:	January 23, 2014
FROM:	David Felix, RWC Executive Director		Item 8
SUBJECT:	EXECUTIVE DIRECTOR'S REPORT		

BACKGROUND

The Executive Director will provide an update to the Board of Directors regarding the following issues:

A. Motorola Headquarters Visit and Tour:

During the December 2013 visit to Motorola Corporate headquarters in Schaumburg, Illinois, Executive Director Felix and Phoenix ITS Supervisor Todd Rogers participated in acceptance testing of the RWC's Simulcast C subsystem equipment; met with the team responsible for tracking and resolving Voice Processing Module (VPM) issues previously briefed to the RWC Board at the November 2013 meeting; and toured other key test areas of Motorola's facility.

B. Las Vegas Metro Police Department Phoenix/RWC Visit:

During the week of January 6 – 9, 2014; representatives of the Las Vegas Metro Police Department (LVMPD) met with Phoenix Police Department, Phoenix ITS and RWC staff for briefings and questions and answers related to RWC governance, technical issues, policy and procedure and police dispatch operations. LVMPD is deploying a Motorola P-25 radio system which will serve the metropolitan Las Vegas region and as far south as Laughlin, Nevada and Mojave County Arizona.

C. University of Phoenix Stadium Bi-Directional Amplifier (BDA) Replacement

Glendale Fire Deputy Chief Chris Dechant has taken steps to begin discussions with representatives of the University of Phoenix Stadium to fund and replace their 800 MHz in-building treatment (BDA) to coincide with the RWC's 700 MHz hardware equipment replacement project. Chief Dechant's goal is to have the University of Phoenix Stadium BDA replaced, tested and

operational before the 2014 Cardinals football schedule and 2015 Super Bowl.

D. Arizona State University (ASU) Membership Evaluation

At the request of the ASU Police Department, the RWC, Phoenix ITS and Motorola are in the process of evaluating the technical requirements, options, impacts and costs associated with potential RWC membership.